

**SPARTAN CHEMICAL CO., INC.  
MATERIAL SAFETY DATA SHEET**

**SECTION I: PRODUCT INFORMATION**

PRODUCT NAME OR NUMBER (as it appears on label)

**CONSUME**

MANUFACTURER'S NAME  
Spartan Chemical Co., Inc.

EMERGENCY TELEPHONE NO.  
419/531-5551

ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE)  
110 N. Westwood Ave., Toledo, OH 43607

MANUFACTURER'S D-U-N-S NO.  
00-503-6728

<b>NFPA RATINGS:</b>	<b>HMIS RATINGS:</b>
HEALTH-1 FIRE-0 REACT-0	HEALTH-1 FIRE-0 REACT-0 PERS. PROT.-A

**SECTION II: HAZARDOUS INGREDIENTS**

CAS REGISTRY NO.	%W	CHEMICAL NAME(S)	TABLE Z-1-A			CARCINOGEN
			TWA mg/M <sup>3</sup>	STEL mg/M <sup>3</sup>	CEILING mg/M <sup>3</sup>	

NO HAZARDOUS INGREDIENTS AT 1% OR GREATER CONCENTRATION

**SECTION III: PHYSICAL DATA**

<b>BOILING POINT</b> 210°F	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1)</b> 1.00	<b>PERCENT SOLID BY WEIGHT</b> 4-8
<b>VAPOR PRESSURE</b> 18 mm Hg @ 75°F	<b>EVAPORATION RATE (but. ace. = 1)</b> <1	
<b>VAPOR DENSITY (AIR = 1)</b> Unknown	<b>APPEARANCE AND ODOR</b> Translucent green, Pleasant fragrance	<b>IS MATERIAL: (LIQUID) SOLID</b> GAS PASTE POWDER
<b>SOLUBILITY IN WATER</b> Complete		
<b>pH</b> 8.0-9.0		

**SECTION IV: FIRE & EXPLOSION HAZARD DATA**

<b>FLASH POINT</b> - None	<b>METHOD USED</b> - ASTM - D92	<b>FLAMMABLE LIMITS</b> - n/a
<b>EXTINGUISHING MEDIA</b> n/a		
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> n/a		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> n/a		

**SECTION V: HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE - CONDITIONS TO AVOID**      **THRESHOLD LIMIT VALUE** - Not established  
Avoid contact with skin, eyes and mouth. Avoid contact with open wounds. Repeated or prolonged skin contact may cause drying or dermatitis. May cause eye irritation. Ingestion will lead to nausea or diarrhea. Organisms are non-pathogenic but can cause infection when in contact with open wounds. These organisms are susceptible to many commonly used antibiotics.

**PRIMARY ROUTES OF ENTRY**    **INHALATION**     **SKIN CONTACT**     **OTHER (SPECIFY)** \_\_\_\_\_

**CONDITIONS AGGRAVATED BY USE** - Pre-existing skin disorders may be aggravated if the product is not properly used.

**EMERGENCY AND FIRST AID PROCEDURES - SKIN:** Remove contaminated clothing. Wash skin with plenty of soap and water. Wash clothing before re-use. **EYES:** Immediately flush with plenty of water for at least 15 minutes; remove contact lenses, see a physician. **INGESTION:** Drink water or milk to dilute. Do not induce vomiting unless advised by physician or poison control center. Call a physician.

**SECTION VI: REACTIVITY DATA**

**STABILITY:**    **UNSTABLE** \_\_\_\_\_    **STABLE**   
**INCOMPATIBILITY (MATERIALS TO AVOID)** - Strong oxidizers, strong acids or alkali compounds may inactivate biological cultures.

**HAZARDOUS DECOMPOSITION PRODUCTS** - CO, CO<sub>2</sub>

**HAZARDOUS POLYMERIZATION:** **MAY OCCUR** \_\_\_\_\_    **WILL NOT OCCUR**

**SECTION VII: SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED** - Flush down drain to waste treatment sewer.

**WASTE DISPOSAL METHOD** - Consult local, state and Federal regulations.

**SECTION VIII: SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION (SPECIFY TYPE)** - Not usually necessary with general ventilation.

**VENTILATION** - Good general ventilation should be sufficient for most conditions. Local ventilation may be necessary for some operations.

**PROTECTIVE GLOVES (SPECIFY TYPE)**  
Impervious

**EYE PROTECTION (SPECIFY TYPE)**  
Safety glasses or face shield

**OTHER PROTECTIVE EQUIPMENT** - None required

**SECTION IX: SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING** - Avoid contact with eyes, skin and clothing. Store in cool, dry location. Keep container tightly sealed when not in use.

**OTHER PRECAUTIONS** - Wash thoroughly after handling.

Spartan Chemical Co., Inc.  
**CONSUME**  
Ref: 29 CFR 1910:1200 (OSHA)

<b>NAME</b>	Thomas J. Mitchell
<b>TITLE</b>	Director of Research
<b>DATE</b>	December 10, 1992
<b>SUPERCEDES</b>	March 18, 1992